



B-30X



DEVELOPED for highway dumper operations where key demands are for chassis of high durability and ruggedness, Model B-30X offers economical performance and the exceptional ability to withstand the rigors of such service.

Ample power for heavy pulling and for speed on level runs is provided by a 330 cubic inch Magnadyne engine which has earned an enviable reputation for its dependability. Drive is through a single-plate clutch of matching capacity and a sturdy five-speed direct transmission. A choice of single-reduction, Dual Reduction or two-speed rear axle equipment is available with a comprehensive range of ratios to render adaptability to individual requirements.

Wheelbases have been determined to accommodate the popular body lengths of nine or ten

feet. The chassis is built on a deep section frame which widens at the front and tapers downward. This feature together with the removable fender panels affords remarkable access to the engine compartment. Reinforcement of the frame rails is accomplished by fishplating and cross-members have been carefully positioned to derive the utmost rigidity.

Rear suspension is through Vari-rate, semi-elliptic springs with three leaf radius rods which give excellent qualities and stability under varying loads.

Throughout the entire B-30X chassis the same high standards of quality manufacture have been maintained which earned its bigger brothers the most distinguished name in the dump truck field.

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MODEL B-30X

STANDARD EQUIPMENT

Condensed Specifications

WHEELBASE —146½", Platform—112"

ENGINE, (Gasoline):

Model _____ IN 351 Magnadyne
 Make _____ Mack
 Number of cylinders _____ Six
 Bore and stroke _____ 3" x 4½"
 Piston displacement, cu. in. _____ 330
 Maximum horsepower @ 3200
 r.p.m. _____ 130
 Brake horsepower @ 2800
 r.p.m. (gov.) _____ 122
 Max. torque @ 1400 r.p.m.
 Pound-feet _____ 264

CLUTCH:

Model _____ CL 477
 Type _____ Single-plate, dry
 Area of engagement, sq. in. _____ 707

FUEL SYSTEM:

Carburetor _____ Zenith, dual downdraft
 Tank capacity & location _____ 22 gal., left apron

COOLING SYSTEM:

Radiator, type _____ Continuous-finned, flat
 tube
 Frontal area, sq. in. _____ 560
 Thermostat _____ Bellows, warm
 circulation
 Water pump _____ Centrifugal
 Fan, material _____ Pressed steel
 Type _____ Asymmetrical
 Water Capacity of system _____ 28 quarts

ELECTRIC SYSTEM:

Voltage and capacity _____ 6V, 45 Amp.
 Generator, make _____ Delco-Remy
 Starting motor, make _____ Delco-Remy
 Battery, make _____ Exide or Auto-Lite
 Number required _____ One (6V)
 Location _____ Right apron

TRANSMISSION (Mack):

Model _____ TR 771
 Type _____ Five-speed, Direct
 Ratios: 5th 1.00; 4th 1.31; 3rd 2.03; 2nd 3.83; 1st 7.08;
 Rev. 7.15

DRIVESHAFTS:

Location _____ Front and rear
 Diameter _____ 3" welded steel
 Wall thickness _____ 0.095"
 Center support _____ Swing type, rubber
 bushed, with single-
 row ball bearing

FRONT AXLE (Mack):

Model _____ FA 301
 Type _____ Reversed Elliott, I-beam

REAR AXLE (Mack):

Model _____ RAS 301
 Carrier _____ CRS 87
 Type _____ Hypoid, single-reduction
 Housing, material _____ One-piece banjo,
 formed from tubular
 stock, heat-treated
 Axle shafts, material _____ Chromium-molybde-
 num steel, heat-
 treated
 Ratios _____ 6.17, 6.83

BRAKES:

Type _____ Internal expanding,
 enclosed
 Actuation _____ Vacuum-hydraulic
 Front, size _____ 14" x 2½" x ¾"
 Rear, size _____ 15" x 3" x ¾"
 Total lining area, sq. in. _____ 457
 Hand, size _____ 10" x 3" x ¼"
 Lining area, sq. in. _____ 85

FRAME:

Type, front _____ Downward taper
 rear _____ Straight
 Material _____ Pressed carbon steel
 Side-members, size _____ 9" x 3½" x ¼"
 Section modulus _____ 15.18
 No. of cross-members & type _____ Three channel
 Reinforcement _____ ¼" Fishplate

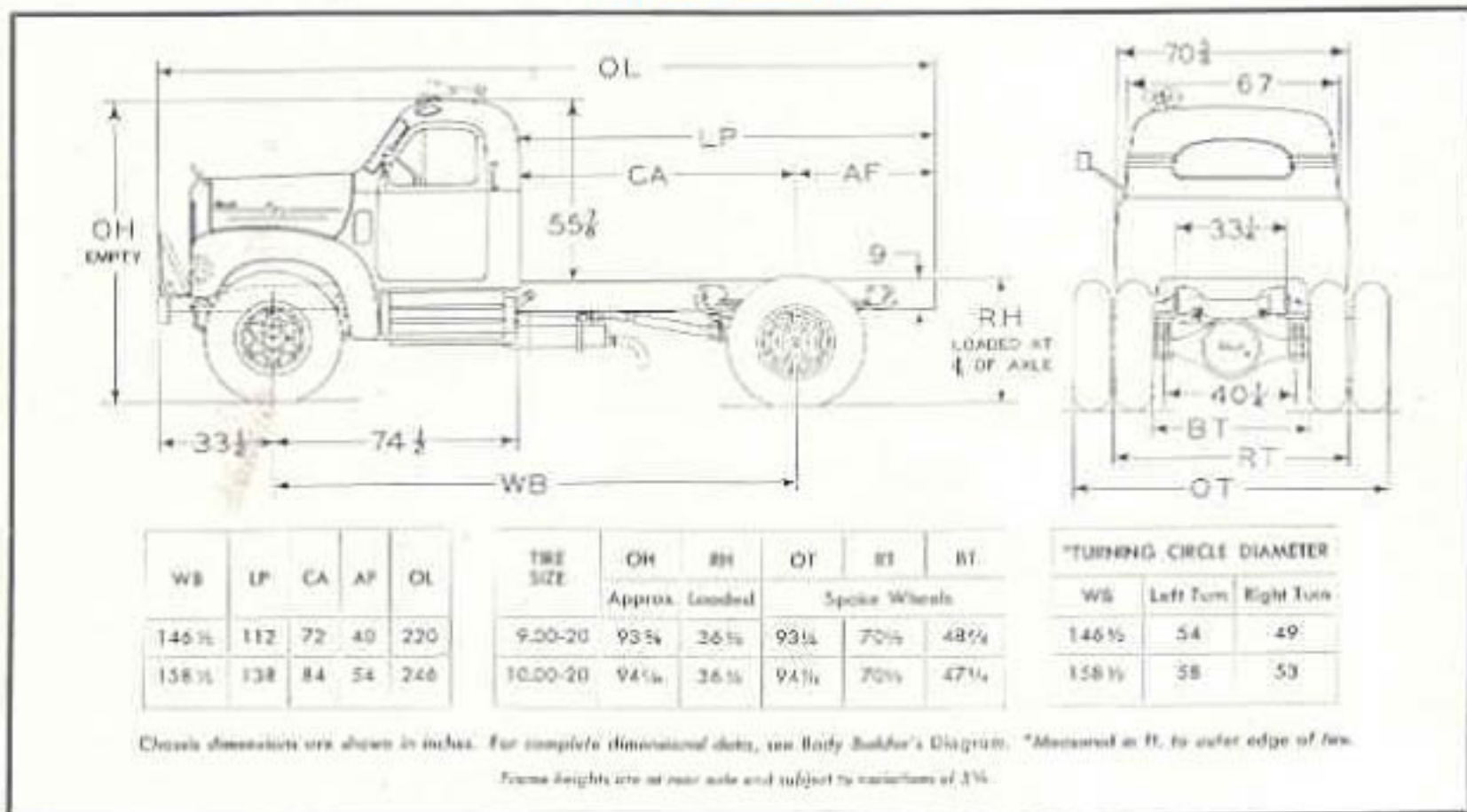
SPRINGS:

Front, type _____ Semi-elliptic
 size, length (between load
 centers) _____ 47¾"
 width _____ 2½"
 Leaf thickness _____ (8 leaves)
 (1) 447
 (3) 360
 (4) 323
 Suspension, Front _____ Slipper type,
 front end; fixed
 pin, rear end
 Rear, type _____ Vari-rate, semi-elliptic,
 with three-leaf
 radius rod
 size, length (between load
 centers) _____ 59" no-load; 46" loaded
 width _____ 3"
 Leaf thickness _____ 0.447" (8 leaves)
 Suspension, Rear _____ Cam type variable
 action brackets



MODEL B-30X

CHASSIS DIAGRAM



Represented by

There being no annual series models of MACK products, refinements and improvements are effected whenever sound development and thorough trial prove them to be advantageous. The right is therefore reserved to change specifications or prices without notice. Illustrations are not necessarily a representation of actual specifications.

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